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(54) PRODUCTION OF TAXANE TYPE DITERPENE

(57) Abstract:

PURPOSE: To efficiently obtain a taxane type diterpene which is useful as a medicine for treating ovarian cancer, mammalian cancer and lung cancer by culturing plant cells or tissues producing taxane type diterpene at a prescribed specific replacement rate and recovering the product from the culture mixture.

CONSTITUTION: When cells or tissues of a plant (*Taxus baccata*) producing a taxane type diterpene such as taxol are cultured at a specific replacement rate of the culture medium, the make-up culture medium is continuously or intermittently added at 0.1-10 specific replacement rate defined as a dimensionless number $F=v/V/\mu$ where V is total volume of the culture medium in the tank, v is the feed rate of the make-up medium and μ is specific proliferation rate of cells or tissues. In the meantime, the culture mixture containing the cells or tissues are continuously or intermittently taken out of the tank and/or the culture mixture free from the cells or tissues taken out of the tank is extracted to recover the product. Thus, this taxane type diterpene useful as a remedy for

ovarian cancer, mammalian cancer or
lung cancer is simply obtained in a
large amount.

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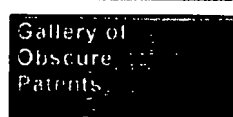
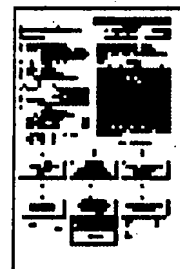
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